ELSEVIER

Nuclear Engineering and Design 150 (1994) 501–503

Nuclear Engineering and Design

Author Index of Volume 150

Ammann, W., see Bartelt, P.A. 150 (1994) 431
Ammerman, D.J., see Hoffman, E.L. 150 (1994) 243
Andeheggen, E., see Bartelt, P.A. 150 (1994) 431
Antonov, S.Y., see Belousov, S.I. 150 (1994) 177
Aoto, K., see Inoue, T. 150 (1994) 129
Appel, H., G. Lutter and T. Sigmund, Crash tests for passenger cars and their relationship to the actual accident occurrence 150 (1994) 473
Attaway, S.W., M.W. Heinstein and J.W. Swegle, Coupling of smooth particle hydrodynamics with the finite element method 150 (1994) 199

Bao, Y., and Z. Jin, Evaluation of impact and brittleness of structural ceramics 150 (1994) 323
Bartelt, P.A., W. Ammann and E. Andeheggen, The numerical simulation of the impact phenomena in nail penetration 150 (1994) 431
Beine, B., see Sappock, M. 150 (1994) 459
Belousov, S.I., S.Y. Antonov and K.D. Ilieva, 14 MeV neutron distribution in a shield with a hollow channel 150 (1994) 177
Belyaev, A.K., Vibrational conductivity approach to high-frequency dynamics 150 (1994) 281
Bounin, D., R. Huggenberg and H. Geiser, Example for the application of IAES–TECDOC criteria for the brittle fracture safe design of a ductile iron shipping package 150 (1994) 379
Böckenhauer, M., and E.D. Egge, Calculation of the collision resistance of ships and its assessment for classification purposes 150 (1994) 397
Böhm, F., Elastodynamics of vehicles and crash simulation 150 (1994) 465
Butler, N., Computer modelling of wood-filled impact limiters 150 (1994) 417

Capron, M., see Ribaus, C. 150 (1994) 425
Chang, S.H., see Moon, S.K. 150 (1994) 151

Diersch, R., G. Milde and J.W. Jones, Structural analysis of the basket for a CASTOR transport cask 150 (1994) 349
Diersch, R., M. Weiss and G. Dreier, Investigation of the impact behaviour of wooden impact limiters 150 (1994) 341
Diersch, R., R. Hüggenberg, G. Dreier and H. Geiser, Verification by calculations of shock-like loads on transport and storage casks 150 (1994) 329
Dreier, G., see Diersch, R. 150 (1994) 329
Dreier, G., see Diersch, R. 150 (1994) 341
Droste, B., see Völzke, H. 150 (1994) 357
Dury, T.V., see Sigg, B. 150 (1994) 1

Egge, E.D., see Böckenhauer, M. 150 (1994) 397
Eibl, J., and G. Kobler, Impact research for containment design 150 (1994) 409
Elias E., see Olek, S. 150 (1994) 49
Englemann, B.E., see Whirley, R.G. 150 (1994) 225

Fairlie, G., see Robertson, N. 150 (1994) 235
Fujimoto, N., see Maruyama, S. 150 (1994) 69
Fujiyama, K., see Inoue, T. 150 (1994) 129
Fukuda, Y., see Inoue, T. 150 (1994) 129
Fukuda, Y., see Inoue, T. 150 (1994) 141

Geiser, H., see Bounin, D. 150 (1994) 379
Geiser, H., see Diersch, R. 150 (1994) 329

Hayakawa, H., see Maruyama, S. 150 (1994) 69
Hayhurst, C., see Robertson, N. 150 (1994) 235
Heinstein, M.W., seeAttaway, S.W. 150 (1994) 199
Herzbruch, U.G., Static and shock-tension loaded headed studs in reinforced concrete 150 (1994) 491
Hoshikawa, T., see Ishikawa, N. 150 (1994) 303
Hoffman, E.L., and D.J. Ammerman, Benchmark study of two- and three-dimensional, finite element calculations, simulating dynamic pulse buckling tests of cylindrical shells under axial impact 150 (1994) 243
Hudina, M. , see Sigg, B. 150 (1994) 1
Huggenberg, R., see Bounin, D. 150 (1994) 379
Huněk, I., Explicit calculations of highly non-linear contact-impact problems 150 (1994) 207
Hüggenberg, R., see Diersch, R. 150 (1994) 329

Igari, T., see Inoue, T. 150 (1994) 141
Ilieva, K.D., see Belousov, S.I. 150 (1994) 177
Imatani, S., see Inoue, T. 150 (1994) 129
Inoue, T., F. Yoshida, Y. Niitsu, N. Ohno, T. Uno and A. Suzuki, Inelastic stress–strain response of $2\frac{1}{4}$Cr–1Mo steel under combined tension–torsion at 600 °C 150 (1994) 107
Inoue, T., M. Sakane, Y. Fukuda, T. Igari, M. Miyahara and M. Okazaki, Fatigue–creep life prediction for a notched specimen of $2\frac{1}{4}$Cr–1Mo steel at 600 °C 150 (1994) 141
Inoue, T., S. Imatani, Y. Fukuda, K. Fujiyama, K. Aoto and K. Tamura, Inelastic stress–strain response for notched specimen of $2\frac{1}{4}$Cr–1Mo steel at 600 °C 150 (1994) 129
Inoue, T., S. Kishi, H. Koto and Y. Takahashi, Fatigue–creep life prediction of $2\frac{1}{4}$Cr–1Mo steel under combined tension–torsion at 600 °C 150 (1994) 119
Ishikawa, N., and T. Hoshikawa, Impact absorption energy of steel pipe beam 150 (1994) 303
Ito, C., see Shirai, K. 150 (1994) 483

Jais, M., see Sappock, M. 150 (1994) 459
Jin, Z., see Bao, Y. 150 (1994) 323
Johnson, G.R., Linking of Lagrangian particle methods to standard finite element methods for high velocity impact computations 150 (1994) 265
Jones, J.W., see Diersch, R. 150 (1994) 349

Kajikawa, Y., see Masuya, H. 150 (1994) 367
Kawamoto, Y., see Ohtsubo, H. 150 (1994) 385
King, M.W., and A. Miyamoto, Integrated impact failure analysis of concrete slab structures with consideration of impact load characteristics 150 (1994) 295
Kishi, S., see Inoue, T. 150 (1994) 119
Kiso, Y., see Maruyama, S. 150 (1994) 69
Kobler, G., see Eibl, J. 150 (1994) 409
Kondo, M., see Kumamaru, H. 150 (1994) 95
Koto, H., see Inoue, T. 150 (1994) 119
Kraus, D., J. Roetzer and K. Thoma, Effect of high explosive detonations on concrete structures 150 (1994) 309
Kukita, Y., see Kumamaru, H. 150 (1994) 95
Kumamaru, H., M. Kondo, H. Murata and Y. Kukita, Void-fraction distribution under high-pressure boil-off conditions in rod bundle geometry 150 (1994) 95
Kuroiwa, T., see Ohtsubo, H. 150 (1994) 385
Kyung, I.S., and S.Y. Lee, Experimental observations on flow characteristics in an open two-phase natural circulation loop 150 (1994) 163

Langerman, M.A., Calculating decay heat removal rates via natural circulation along variable heat flux reactor fuel plates 150 (1994) 61
Lee, S.Y., see Kyung, I.S. 150 (1994) 163
Lutter, G., see Appel, H. 150 (1994) 473

Maekawa, I., Behaviour of materials subjected to an impact force and new evaluation method for impact strength 150 (1994) 315
Malesys, P., Behaviour of a spent fuel transport–storage cask during an airplane crash 150 (1994) 453
Maruyama, S., N. Fujimoto, Y. Sudo, Y. Kiso and H. Hayakawa, Fuel temperature analysis method for channel-blockage accident in HTTR 150 (1994) 69
Masuya, H., Y. Kajikawa and Y. Nakata, Application of the distinct element method to the analysis of the concrete members under impact 150 (1994) 367
Milde, G., see Diersch, R. 150 (1994) 349
Miyahara, M., see Inoue, T. 150 (1994) 141
Miyamoto, A., see King, M.W. 150 (1994) 295
Moon, S.K., and S.H. Chang, Classification and prediction of the critical heat flux using fuzzy theory and artificial neural networks 150 (1994) 151
Mosleh, A., G.W. Parry and A.F. Zikria, An approach to the analysis of common cause failure data for plant-specific application 150 (1994) 25
Muramatsu, T., and H. Ninokata, Investigation of turbulence modelling in thermal stratification analysis 150 (1994) 81
Murata, H., see Kumamaru, H. 150 (1994) 95

Nakata, Y., see Masuya, H. 150 (1994) 367
Niitsu, Y., see Inoue, T. 150 (1994) 107
Nilsson, L., see Zhong, Z.H. 150 (1994) 253
Ninokata, H., see Muramatsu, T. 150 (1994) 81

Ohno, N., see Inoue, T. 150 (1994) 107
Ohtsubo, H., Y. Kawamoto and T. Kuroiwa, Experimental and numerical research on ship collision and grounding of oil tankers 150 (1994) 385
Okazaki, M., see Inoue, T. 150 (1994) 141
Olek, S., E. Wacholder and E. Elias, Analytical solution of two-dimensional diffusion in a composite medium with application to cooling of reactor fuel elements 150 (1994) 49
Onuma, H., see Shirai, K. 150 (1994) 483

Parry, G.W., see Mosleh, A. 150 (1994) 25

Quercetti, T., G. Wieser, H. Völzke and P. Zeisler, Analytical, numerical and experimental investigationds on the impact behaviour of selected structures 150 (1994) 287

Ribaus, C., and M. Capron, BERN railway station: security assessment under a speed increase of trains from 30 to 40 km h^{-1} 150 (1994) 425
Rittscher, D., see Sappock, M. 150 (1994) 459

Robertson, N., C. Hayhurst and G. Fairlie, Numerical simulation of impact and fast transient phenomena using AUTODYN™-2D and 3D 150 (1994) 235
Roetzer, J., see Kraus, D. 150 (1994) 309
Rödel, R., see Völzke, H. 150 (1994) 357

Sakane, M., see Inoue, T. 150 (1994) 141
Sappock, M., B. Beine, D. Rittscher and M. Jais, Design and testing of a shock absorber for a type I container 150 (1994) 459
Schwer, L.E. Viscoplastic augmentation of the smooth cap model 150 (1994) 215
Shirai, K., C. Ito and H. Onuma, Numerical studies of impact on reinforced concrete beam of hard missile 150 (1994) 483
Sigg, B., T.V. Dury and M. Hudina, Analysis of SONACO axial cooling experiments 150 (1994) 1
Sigmund, T., see Appel, H. 150 (1994) 473
Sudo, Y., see Maruyama, S. 150 (1994) 69
Suzuki, A., see Inoue, T. 150 (1994) 107
Swegle, J.W., seeAttaway, S.W. 150 (1994) 199

Takahashi, Y., see Inoue, T. 150 (1994) 119
Tamura, K., see Inoue, T. 150 (1994) 129
Tanimoto, N., One-dimensional propagation speed of an elastic–plastic–viscoplastic stress wave 150 (1994) 275
Thoma, K., and D. Vinckier, umerical simulation of a high velocity impact on fiber reinforced materials 150 (1994) 441
Thoma, K., see Kraus, D. 150 (1994) 309

Uno, T., see Inoue, T. 150 (1994) 107

van Heek, A.I., Increasing the power of the high temperature reactor module 150 (1994) 183
Vinckier, D., see Thoma, K. 150 (1994) 441
Völzke, H. R. Rödel and B. Droste, A fracture mechanics safety concept to assess the impact behavior of ductile cast iron containers for shipping and storage of radioactive materials 150 (1994) 357
Völzke, H., see Quercetti, T. 150 (1994) 287

Wacholder, E., see Olek, S. 150 (1994) 49
Weiss, M., see Diersch, R. 150 (1994) 341
Whirley, R.G., and B.E. Englemann, Automatic contact algorithm in DYNA3D for crashworthiness and impact problems 150 (1994) 225
Wieser, G., see Quercetti, T. 150 (1994) 287

Yoshida, F., see Inoue, T. 150 (1994) 107

Zeisler, P., see Quercetti, T. 150 (1994) 287
Zhong, Z.H., and L. Nilsson, Contact-impact algorithms on parallel computers 150 (1994) 253
Zikria, A.F., see Mosleh, A. 150 (1994) 25

ELSEVIER

Nuclear Engineering and Design 150 (1994) 505–506

Fusion Engineering and Design

Subject Index of Volume 150

Engineering mechanics

Coupling of smooth particle hydrodynamics with the finite element method, S.W. Attaway, M.W. Heinstein and J.W. Swegle 150 (1994) 199
Explicit calculations of highly non-linear contact-impact problems, I. Huněk 150 (1994) 207
Viscoplastic augmentation of the smooth cap model, L.E. Schwer 150 (1994) 215
Automatic contact algorithm in DYNA3D for crashworthiness and impact problems, R.G. Whirley and B.E. Engelmann 150 (1994) 225
Numerical simulation of impact and fast transient phenomena using AUTO-DYN™-2D and 3D, N. Robertson, C. Hayhurst and G. Fairlie 150 (1994) 235
Benchmark study of two- and three-dimensional, finite element calculations, simulating dynamic pulse buckling tests of cylindrical shells under axial impact, E.L. Hoffman and D.J. Ammerman 150 (1994) 243
Contact-impact algorithms on parallel computers, Z.H. Zhong and L. Nilsson 150 (1994) 253
Linking of Lagrangian particle methods to standard finite element methods for high velocity impact computations, G.R. Johnson 150 (1994) 265
One-dimensional propagation speed of an elastic–plastic–viscoplastic stress wave, N. Tanimoto 150 (1994) 275
Vibrational conductivity approach to high-frequency dynamics, A.K. Belyaev 150 (1994) 281
Analytical, numerical and experimental investigations on the impact behaviour of selected structures, T. Quercetti, G. Wieser, H. Völzke and P. Zeisler 150 (1994) 287
Integrated impact failure analysis of concrete slab structures with consideration of impact load characteristics, M.W. King and A. Miyamoto 150 (1994) 295
Impact absorption energy of steel pipe beam, N. Ishikawa and T. Hoshikawa 150 (1994) 303
Effect of high explosive detonations on concrete structures, D. Kraus, J. Roetzer and K. Thoma 150 (1994) 309
Behaviour of materials subjected to an impact force and new evaluation method for impact strength, I. Maekawa 150 (1994) 315
Evaluation of impact and brittleness of structural ceramics, Y. Bao and Z. Jin 150 (1994) 323
Verification by calculations of shock-like loads on transport and storage casks, R. Diersch, R. Hüggenberg, G. Dreier and H. Geiser 150 (1994) 329
Investigation of the impact behaviour of wooden impact limiters, R. Diersch, M. Weiss and G. Dreier 150 (1994) 341
Structural analysis of the basket for a CASTOR transport cask, R. Diersch, G. Milde and J.W. Jones 150 (1994) 349
A fracture mechanics safety concept to assess the impact behavior of ductile cast iron containers for shipping and storage of radioactive materials, H. Völzke, R. Rödel and B. Droste 150 (1994) 357
Application of the distinct element method to the analysis of the concrete members under impact, H. Masuya, Y. Kajikawa and Y. Nakata 150 (1994) 367
Example for the application of IAES–TECDOC criteria for the brittle fracture safe design of a ductile iron shipping package, D. Bounin, R. Hüggenberg and H. Geiser 150 (1994) 379
Experimental and numerical research on ship collision and grounding of oil tankers, H. Ohtsubo, Y. Kawamoto and T. Kuroiwa 150 (1994) 385
Calculation of the collision resistance of ships and its assessment for classification purposes, M. Böckenhauer and E.D. Egge 150 (1994) 397
Impact research for containment design, J. Eibl and G. Kobler 150 (1994) 409

Computer modelling of wood-filled impact limiters, N. Butler 150 (1994) 417
BERN railway station: security assessment under a speed increase of trains from 30 to 40 km h^{-1}, C. Ribaux and M. Capron 150 (1994) 425
The numerical simulation of the impact phenomena in nail penetration, P.A. Bartelt, W. Ammann and E. Anderheggen 150 (1994) 431
Numerical simulation of a high velocity impact on fiber reinforced materials, K. Thoma and D. Vinckier 150 (1994) 441
Behaviour of a spent fuel transport–storage cask during an airplane crash, P. Malesys 150 (1994) 453
Design and testing of a shock absorber for a type I container, M. Sappock, B. Beine, D. Rittscher and M. Jais 150 (1994) 459
Elastodynamics of vehicles and crash simulation, F. Böhm 150 (1994) 465
Crash tests for passenger cars and their relationship to the actual accident occurrence, H. Appel, G. Lutter and T. Sigmund 150 (1994) 473
Numerical studies of impact on reinforced concrete beam of hard missile, K. Shirai, C. Ito and H. Onuma 150 (1994) 483
Static and shock-tension loaded headed studs in reinforced concrete, U.G. Herzbruch 150 (1994) 491

Materials properties

Inelastic stress–strain response of $2\frac{1}{4}$Cr–1Mo steel under combined tension–torsion at 600 °C, T. Inoue, F. Yoshida, Y. Niitsu, N. Ohno, T. Uno and A. Suzuki 150 (1994) 107
Fatigue–creep life prediction of $2\frac{1}{4}$Cr–1Mo steel under combined tension–torsion at 600 °C, T. Inoue, S. Kishi, H. Koto and Y. Takahashi 150 (1994) 119
Inelastic stress–strain response for notched specimen of $2\frac{1}{4}$Cr–1Mo steel at 600 °C, T. Inoue, S. Imatani, Y. Fukuda, K. Fujiyama, K. Aoto and K. Tamura 150 (1994) 129
Fatigue–creep life prediction for a notched specimen of $2\frac{1}{4}$Cr–1Mo steel at 600 °C, T. Inoue, M. Sakane, Y. Fukuda, T. Igari, M. Miyahara and M. Okazaki 150 (1994) 141

Reactor concepts and systems analysis

Increasing the power of the high temperature reactor module, A.I. van Heek 150 (1994) 183

Radiation shielding

14 MeV neutron distribution in a shield with a hollow channel, S.I. Belousov, S.Y. Antonov and K.D. Ilieva 150 (1994) 177

Thermal-hydraulics and safety

Analysis of SONACO axial cooling experiments, B. Sigg, T.V. Dury and M. Hudina 150 (1994) 1
An approach to the analysis of common cause failure data for plant-specific application, A. Mosleh, G.W. Parry and A.F. Zikria 150 (1994) 25
Analytical solution of two-dimensional diffusion in a composite medium with application to cooling of reactor fuel elements, S. Olek, E. Wacholder and E. Elias 150 (1994) 49
Calculating decay heat removal rates via natural circulation along variable heat flux reactor fuel plates, M.A. Langerman 150 (1994) 61
Fuel temperature analysis method for channel-blockage accident in HTTR, S. Maruyama, N. Fujimoto, Y. Sudo, Y. Kiso and H. Hayakawa 150 (1994) 69
Investigation of turbulence modelling in thermal stratification analysis, T. Muramatsu and H. Ninokata 150 (1994) 81
Void-fraction distribution under high-pressure boil-off conditions in rod bundle geometry, H. Kumamaru, M. Kondo, H. Murata and Y. Kukita 150 (1994) 95
Classification and prediction of the critical heat flux using fuzzy theory and artificial neural networks, S.K. Moon and S.H. Chang 150 (1994) 151
Experimental observations on flow characteristics in an open two-phase natural circulation loop, I.S. Kyung and S.Y. Lee 150 (1994) 163